## PATENT COOPERATION TREATY

## **PCT**

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

'	Onapier if or are a second	•		
	(PCT Article 36 a	nd Rule 70)	REC'D 10 FEB 20	06
			12//20	
Applicant's or agent's file reference P210867PCT	FOR FURTHER ACTIO	ON s	WIPO See Form PCT/PEA/416	PCT
International application No. PCT/NL2004/000711	International filing date (day) 08.10.2004	/month/year)	Priority date (day/month/y 09.10.2003	rear)
International Patent Classification (IPC) or	regional classification and IPC			
E01B1/00	nadonal diacomounts.			
Applicant KONINKLIJKE BAM GROEP N.V	'.et al			
This report is the international part Authority under Article 35 and to the control of the	tauzummen in me abbildant a	coolding to the color	International Preliminar	ry Examining
2. This REPORT consists of a total of 5 sheets, including this cover sheet.				
3. This report is also accompanied	d by ANNEXES, comprising:		4.10	
a. 🛛 sent to the applicant and	d to the International Bureau	) a total of 2 sheets,	as follows:	eie of this report
and/or sheets conta	iption, claims and/or drawings aining rectifications authorized ructions).	a by this Additionty (3)	50 ( (dio ) 0 ( to di ) a = = =	
sheets which super beyond the disclose	rsede earlier sheets, but whic ure in the international applic	ch this Authority cons ation as filed, as indi	iders contain an amend cated in item 4 of Box N	ment that goes o. I and the
	al Bureau only) a total of (ind tables related thereto, in cor nce Listing (see Section 802			) , containing a Supplemental
4. This report contains indication	s relating to the following iter	ms:		
☑ Box No. I Basis of the	opinion			
□ Pov No. II Priority				
☐ Box No. III Non-establis	shment of opinion with regard	d to novelty, inventive	step and industrial app	licability
T Pay No. IV Lack of unit	v of invention			
M = N V Decreased	statement under Article 35(2) citations and explanations	with regard to novell supporting such state	y, inventive step or indu ment	strial
	cuments cited			
☐ Box No. VII Certain defe	ects in the international appli	cation		
☐ Box No. VIII Certain obs	servations on the internationa	al application		
Date of submission of the demand		Date of completion of	his report	
09.08.2005		13.02.2006		
Name and mailing address of the Intern	national	Authorized Officer		makes Policeton
preliminary examining authority:	- P.B. 5818 Patentlaan 2	Movadat, R		
NL-2280 HV Rijswijk - P Tel. +31 70 340 - 2040 7 Fox: +31 70 340 - 3016	TX: 31 651 epo ni	-	040 4006	The state of the s
Fax: +31 70 340 - 3016		Telephone No. +31 70	) 340-4006	Office exp.

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000711

_	Box No. I	Basis of the report		
ì.	With regard	I to the <b>language</b> , this report is based on the international application in the language in which it was so otherwise indicated under this item.		
	<ul> <li>□ This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:</li> <li>□ international search (under Rules 12.3 and 23.1(b))</li> <li>□ publication of the international application (under Rule 12.4)</li> <li>□ international preliminary examination (under Rules 55.2 and/or 55.3)</li> </ul>			
2.	have been	d to the <b>elements*</b> of the international application, this report is based on (replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):		
	Description	n, Pages		
	1-4	as originally filed		
	Claims, Nu			
	1-9	received on 09.08.2005 with letter of 09.08.2005		
	Drawings,	Drawings, Sheets		
	1/3-3/3	as originally filed		
	□ a sec	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3	□ th □ th □ th □ th □ th □ th	amendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): ny table(s) related to sequence listing (specify):		
4	had not be Supplem   the triangle the triangle the triangle the triangle the triangle the triangle tri	report has been established as if (some of) the amendments annexed to this report and listed below seen made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)).  The description, pages the claims, Nos.  The drawings, sheets/figs the sequence listing (specify):  The sequence listing (specify):  The sequence listing (specify):  The sequence of these sheets may be marked "superseded."		
	* If .	rem a abbites, pome of the second of the sec		

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/NL2004/000711

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-9

No: Claims

Inventive step (IS) Yes: Claims 1-9

No: Claims

Industrial applicability (IA) Yes: Claims 1-9

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

#### Re Item V

- 1.1 Document EP-A-0379148, which is considered to represent the relevant state of the art, discloses:
  - a method for laying a section of railway comprising a railway track consisting of two rails and sleepers by means of which the rails are linked to one another, and a foundation on which the railway track is supported comprising the following steps; preparation of the foundation; supporting the railway track with banking some distance above the foundation; and pouring concrete between the sleepers and the foundation by means of several discharge openings that are alongside one another in the transverse direction (ie. viewed in the transverse direction of the track);
  - a device for laying a section of railway with a railway track consisting of two rails as well as sleepers by means of which the rails are linked to one another, and a foundation on which the railway track is supported, comprising a chassis (40) that can be moved along and over the section of railway, which chassis has several discharge openings (92), the height of which can be adjusted relative to the chassis and which are alongside one another viewed in the transverse direction of the chassis, as well as means for feeding ready-mix concrete to said discharge openings.
  - 1.2 The respective contributions of method claim 1 and apparatus claim 4 to the state of the art recite as follows: claim 1; making the banking of the railway track and the foundation different, and setting the discharge openings at heights that differ from one another; claim 4; the discharge openings can be set at heights that differ from one another. Consequently, claims 1 and 4, hence claims 2,3, 5-9 respectively appended thereon fulfill the criteria set forth in Article 33(2) PCT.
  - 1.3 The problem underlying the invention is to allow working with horizontal foundations over the entire section of railway, i.e. including curved sections thereof.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/NL2004/000711

1.4 The feature in claim 1 of making the banking of a railway track and the foundation different is known in a similar method through DE-A-10048842. However the further feature in claim 1 of setting the discharge openings at heights that differ from one another, and the corresponding feature in claim 4 are neither obvious nor derivable from the state of the art rendered available, whereby all claims fulfill the criteria set forth in Article 33(3) PCT.

#### Claims

n 9. 08. 2005

**(95)** 

- 1. Method for laying a section of railway (2) comprising a railway track (3) consisting of two rails (5) and sleepers (6) by means of which the rails (5) are linked to one another, and a foundation (4) on which the railway track (3) is supported, comprising the following steps:
  - preparation of the foundation (4),
- supporting the railway track (3) with banking some distance above the foundation (4),
  - pouring concrete (10) between the sleepers (6) and the foundation (4),
  - making the banking of the railway track (3) and the foundation (4) different, and
- pouring the concrete (10) by means of several discharge openings (9) that are alongside one another in the transverse direction.

characterised by:

- setting the discharge openings (9) at heights that differ from one another.
- 2. Method according to Claim 1, comprising, viewed in the transverse direction, pouring different amounts of concrete (10) per unit length of the width of the railway track (3).

20

5

10

15

- 3. Method according to Claim 1 or 2, comprising setting the discharge openings (9) at essentially the same distance with respect to the sleepers (6).
- 25 claims for laying a section of railway (2) with a railway track (3) consisting of two rails (5) as well as sleepers (6) by means of which the rails (5) are linked to one another, and a foundation (4) on which the railway track (3) is supported, comprising a chassis (15) that can be moved along and over the section of railway (2), which chassis (15) has several discharge openings (9), the height of which can be adjusted relative to the chassis (15) and which are alongside one another viewed in the transverse direction of the chassis (15), as well as means (8) for feeding ready-mix concrete (10) to said discharge openings (9), characterised in that the discharge openings (9) can be set heights that differ from one another.

- 5. Device according to Claim 4, wherein the discharge openings (9) are linked to one another.
- 6. In combination, a device (1) according to Claim 4 or 5, as well as support tracks (14) that can be installed on the foundation (4) for the section of railway (2) to be laid in order to support the device (1).
- 7. Combination according to Claim 6, wherein auxiliary vehicles (17, 18) are provided that have wheels (16) and the support tracks (14) have a channel shape, in which channel shape the roller members (16) can be accommodated.
  - 8. Combination according to Claim 6 or 7, also comprising a hopper (7) for a quantity of ready-mix concrete (10), as well as means (8) for transferring the ready-mix concrete (10) from the hopper (7) to the discharge openings (9).

15

9. Combination according to Claim 6, 7 or 8, wherein the device (1) has wheels (12) that can be supported on the rails (5).

.....